

2013, May 30

THURSDAY NIGHT CALL

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Host: MariettaRobert

Opening Meditation: AngelSu

Mayan Calendar: Rainbird

We have just entered the week of CHICCAN the serpent which is about change, transmuting energy; good time to make changes in our inner and outer worlds; work on the DNA & call in the new codons we know are available; look at our habits etc and know we will be supported.

Gift is the motivation to change. Surrender insecurity;

30thThurs: 2 CIMI 2nd day of the wave, Cimi is the world bridger – means both life and death; a portal day

31st Fri: 3 MANIK – the healing hand, the deer; 3 energy is activation, movement, creativity

June 1st Sat: 4 LAMAT – a stargate, a visionary aspect; illumination of human kind

2nd Sun: 5 MULUK 5 is a pillar day, the centre, the core; Muluk is the moon, telepathic – listen to your guides, time to surrender self-doubt

3rd Mon: 6 OC 6 is organic balance, receptivity; OC is the dog, unconditional love, balance and play – listen to your guides and have an awareness of destiny

4th Tues: 7 CHUEN 7 is mystical power, alignment; Chuen about balancing work and play; time to surrender – remember humour

5th Wed: 8 EB – EB is the healing

6th Thurs: 9 BEN – Ben is the stargate – THE WHOLE WEEK IS POWERFUL

MR: how many times do we have so many portal days in a row?

Rainbird reads about this phenomenon

Astrology: Annie Rose

- Begins discussion with Pluto – effect is changes in Aries; Uranus
- Aries, Cancer Libra, Capricorn will be especially affected, yet the barriers will pass, although they are slow to move
- Transit by Neptune – brings unusual things: on June 7th, Neptune goes retrograde – it's a dreamy planet, now in Pisces; Pisces is a dreamy sign anyway, but by Neptune going retro, we have a chance to re-start our efforts towards our dreams – not a time that is good for starting things, but things started

may not last; when starting a re'ship, do it when Neptune is not retrograde

- This will also enhance our gut feelings, the inner push, our intuition; may even enhance our belief in spiritual things; countries will also be affected. We may see countries going into warlike activities, but also improving their relationships with others
- Uranus will also improve financial things
 - Also watch out for electrical malfunctions – the storms she sees subsiding this coming week
 - there will be rain, but not so drastic
- This weekend, people may be chaotic or helter-skelter but starting with June 7th, will start following through and finishing up things
- She reminds us: keep an eye on investments – will be some pleasant surprises – should be pretty good
- This affects all signs of the zodiac – will see prices rise in debt, insurance, inflation
 - will also see there is more happiness as people get more control of their own money
- Also a possibility of major illness: keep your resistance up – a strong necessity; the last 2 eclipses people have looked away from being organized and keeping an eye on their health – maybe not eating as well, for example – the charts do show the country being swept across with flu; she wonders if the tornadoes have raised up some germs
- Every sign of the zodiac: facing a month of movement, we will all be energized enough to complete the paths we have started – does not see a lot of bad this coming month; talk of security will raise its head, but she feels that US is getting to the point of betterment for the whole country in areas of security – we will have positive energy flowing
- Will get back to a better work ethic after a drop in enthusiasm for accomplishment – may begin before the 7th

T: asking about announcements

AR: good possibility for this, facts may be found, but action will be delayed until after this month; may get the news of the end of financial dealing, but may not see the benefits of it for a week

T: Can AR apply the knowledge of financial things to the big scene of financial change?

AR: there will be absoluteness before the 7th – as far as the countries involved, as far as amounts, but maybe not able to reap the benefits for a couple of days

T: have been told that mass arrests have to happen first; does she see that?

AR: no, that kind of action is not indicated; so much has happened behind the scenes, a lot has been taken care of; feels that the mess the President is going through will continue a bit longer, but will not affect the major monetary movements

T: cannot deliver anything until the Illuminati have been arrested and the announcement has to be publicly announced and NESARA announced as the new system

AR: she sees it happening

T: the Enactment has not been finalized, and it has to be announced publicly that the changeover has happened

AR: not sure it will be as overt or open as we think it is going to be; watch the 7th – shows a lot of short lived strife between Kuwait and Iraq – the last eclipse affected them, but the eclipse will be beneficial for them

- Syria going down to a slightly degree of importance; a little calmer – yet it is a country that is never at peace and never has been due to its history

T: if this is a global thing, it is for every country on earth

AR: only if the bad boys are taken out of the picture

T: that is the point of NESARA

AR: she does not see it that way for every country: some countries will get their financial help but is not saying the leaders will use it in the right way.

T: there is something called Galactic Intervention that means people could be removed very peacefully

AR: let's pray that this happens quickly

T: a ton of things on June 7th

- Neptune goes stationary retrograde
- Saturn still retrograde
- Mercury going retrograde on 26th
- Mars & Moon conjunct – normally means anger and temper – in Gemini which is about communication - could be about legal, governmental matters

- Pluto at 10° of Capricorn, in direct opposition to Mercury: hidden secrets come out – could be rumours/news abounding on the 7th & 8th
- New Moon in Taurus on 10th
- Mars squaring Neptune on the 7th
- Moon squares Neptune on the 7th
- Mars Neptune

Hard News:

T: Myriads of distractions going on:

- story about Chechnian man who was killed with 7 bullets – 6 in chest & one in back of head; looks like a murder by the FBI in Orlando and lots of made-up stories to cover it up; now Russia has taken it up; family in Florida was called in to take the body; family member took pictures and sent them to the parents in Russia, now Russia involved.
- Sandy Hook was a CIS Black Op; so was Boston
- Shows they are desperate – McCain went to Syria as a representative of Netanyahu – met with US black ops; Al Assad was in cahoots with this otherwise, McCain would not be alive
 - they are using chemical weapons on the people – no food, no water, no medicine in one area & 1500 people seriously wounded; can't get out or get help –
 - Al Jazeera repeated the story 2-3 times to say it was Iran and Hezbollah when it was really the US and Israel showing how desperate they are
- All kinds of letters with Ricin in them being sent to more than the President

R: a lady handing out pizza – the police shot her and killed her dead!

- Spoke to Larry, Curly and Jack [the super soldier] – they told him it has to do with the extreme right wing groups tied in with the militia groups who are pumping the hatred of Obama and all about the 4th Reich
 - Also about the Tsarevich brothers were just patsies: the Mossad killed the police man at the university & what was happening was a trial run for the time when this could be used against the people of US
 - we are going to see unprecedented numbers of de-cloakings and interactions: there are thousands and thousands of ships over Syria
 - in the final seconds of these ones being in desperation: the market is going down, cannot be propped up
- T:** Japan market is falling – propped up by JP Morgan and others

AR: does not know who it is, but someone sent her a bunch of different things in an e-mail, including the following: when the US had a problem with the first moon mission and needed pens that would write with no gravity. Spent \$10 Billion on research; talked about how wasteful using the \$10 billion dollars to create such a pen. The last part was how Russia solved the problem by using a pencil!!!

T: Larry, Curly & Jack: they are enhanced as humans - they have machine DNA, ET DNA, and are programmed to do the bidding of the cabal – basically, cannot be killed

- T tells the story of a super soldier who was so moved by a little 5 year old girl who lost her leg and he helped her by putting a tourniquet on her leg and getting her to help. Now and then, the light in a person can be reached.

R: they used to be called the Southern Strategy – could be blue dog democrats – they are so upset with Obama that they are believing all the false stories

- there is an increased level of negativity and violence going on against the White House, which is why we hear about Bloomberg, the mayors, Obama getting Ricin letters
- Mother's last children are going kicking and screaming to the Dark Rift
- McCain and Palin – Manchurian candidates – he is a known war criminal & not want to die!
- No one wants to talk about the thousands of ships over Syria

R: Ed Schultz had Jim Mars on his radio show for an hour yesterday; Jim's been to the Prophets Conference and has different connections with full disclosure etc –

- did a whole hour on stargates – talked of Star Gate SG1 and how it parallels exactly what is happening, and the spin off called Star Gate Atlantis which has to do with the ancient story of Sumer/Zacheria Sitchen; story involves Nibiru which is being discussed openly in the news – they call it the giant red planet as it can be seen!

- Jim Mars talked of Michelle Bachmann being more dangerous outside Congress than inside – adds to the level of hatred against Obama which she has aided and abetted
- Jim, John Nichols etc are going to put out the word that Bachmann should leave Congress without a single dime – deserves nothing; she did as John Ensign playing with money [from their PACS] that was not theirs – she is tied in with plans to kill Obama
- the Video called **Citizen Koch** was to be played on PBS – Koch brothers paid them off

T: **Good things** going on:

- FARC in negotiations for total peace to iron out things like giving land back to peasants and then found them dead on their land; the perpetrators are getting stopped and exposed
- Al Jazeera English – 30 minutes in the morning: very gnarly stuff – Buddhists in Myanmar murdering the others
- Alice Walker on Amy Goodman – talked about meeting Aung San Suu Kyi who got through the 26 years by meditating every single day
- there needs to be some kind of galactic thing

MR: got a petition today about blocking the Koch Bros from buying more media

T: Tokyo International Convention on African Development: **Mozambique have been growing their economy** by 7% a year for the last few years

D'Yanna: **Mozambique** has over 10,000 land mines they are trying to clean up; bringing in huge rats from Australia that are as big as cats: making pets out of them and training them – were originally used in experiments by the CIA – pouch rats: they are clearing out acres of land mines by means of the rats – going to use them world wide!

T: doing it in Thailand and Cambodia; in Cambodia, a mixture of honey and gunpowder so the bees find the honey and therefore the land mines. If a rat goes in and even put a paw on it, it will explode – the bees can find the honey and the people won't get hurt. They get hurt when they have to take the rats in on a leash.

MR: the Dept of Ag raided a bee keeper in Illinois – they stole his bees and 10-15 years of research; if you keep bees, you are supposed to register them – the bees he had were highly productive in terms of making honey; they had been through 3-4 years of resistance to Monsanto chemicals – which means the Dept of Ag would be helping restore the bee colonies, but they ARE NOT; they are the enemy!

- Incredibly upsetting to learn this!

T: prays that this will work out with galactic help -

- there is something called geo-engineering: Can we save the planet by messing with nature?
Clive Hamilton from Canberra Australia **[SEE BELOW]**

MR: talks of a YouTube video that is out – showing how using the chemtrails forms clouds that are not like other clouds and how it causes unexpected things

T: info becoming available and it is in the open; now we need some action

the Hudson Institute, the Heartland Institute, the Cato Institute – all want to make their money

Caller: movie coming out “Now You See Me” - what do they think of this?

R: Morgan Freeman is a master and this is about teleportation etc – he was on the Jon Stewart show last week & announced it last week

R: **The Man of Steel:** a new Superman movie coming out – he is an ET from Krypton; play with the idea that he is a visitor; the FBI & others involved, but he proves himself to the people – Lois Lane is in

Reading: Ben Fulford (May 28 2013) ~ The Tide Has Definitely Turned Against The Cabal But Some Big Battles Remain Ahead [with comments by T & R]

There are indications everywhere now that the tide has turned decisively against the Satanic Sabbatean cabal and its plans for a family controlled fascist New World Order global dictatorship. For example, Pope Francis is expected to make a speech on the subject of financial tyranny and the global collateral accounts when he visits South America in June, according to a senior P2 Freemason Lodge member. [R: will be exposed for the criminal he really is]

President Obama, meanwhile, made a speech last weekend where he basically admitted the US

government had gone rogue and was getting ready to mend its ways.

However, the Sabbateans have still not given up and may pull off a few more nasty tricks before their final defeat. The recent mass burning of cars in Sweden, the “beheading” in the UK, the stabbing in France etc. all seem part of a desperate cabal effort to somehow provoke their long planned Muslim/Christian war. There is also the matter of Israel that still needs to be settled.

In Japan, too, cabal “economic hitmen” have been on the rampage causing volatility in markets in an attempt to derail Prime Minister Shinzo Abe’s Abenomics. This is part of a still unfinished battle for control of Japan. There are also indications that the recent Japanese election was stolen for Abe by the Rockefeller, Goldman Sachs, Council on Foreign Relations faction of the cabal. The vote counting in the recent Japanese general election that gave Abe a dictatorial 2/3rds control of parliament was all done by machines created by a company called Musashi. According to research by a Japanese right wing activist that we have only been partially able to confirm, the ownership of Musashi has been traced through a bunch of shell companies to an outfit called “Forrest Asset Management” run by a former Goldman Sachs employee and CFR member by the name of Peter Greiger. What we can confirm though from multiple sources is that the last election was stolen in favour of Abe by a coalition including young officers of the Japanese Defence Ministry.

What all this means is not certain but it is clear from other sources that Japan is split right down the middle between two factions. One faction is linked to the Rockefellers, Goldman Sachs and CFR and wants the Crown Prince Naruhito and Rockefeller Trilateral Commission member Hisashi Owada’s daughter Princess Masako to take over the role of Emperor and thus control over Japan. The other faction wants younger brother Prince Akishino (who has a male heir) to take over and keep the throne purely Japanese.

The Rockefeller faction does not want a normalization of relations with North Korea and reunification of the Korean peninsula because that would eliminate the cabal’s secret financial control. That is why the cabal has been trying so desperately to provoke war in East Asia.

Despite this, the push for reunification of the Korean peninsula and peace in North East Asia is going ahead. The North Korean generals and Japanese right wingers bribed by the cabal into staging provocations have been removed.

Nonetheless, the battle to free Japan is far from over and the effects of 67 years of brutal military occupation are still being felt. The quislings who benefited from this occupation are understandably very reluctant to lose their power and allow the Japanese people to learn the truth.

What is still not clear in Japan is if Abenomics is about saving the Japanese economy or saving Goldman Sachs interests in East Asia. The recent market turbulence featuring a plunging Nikkei Index, rising interest rates and a strong yen appears to be orchestrated by the Bush faction of the cabal and features Texas based hedge fund manager Kyle Bass as a kind of anti-Abenomics cheerleader. His logic is that if the Bank of Japan buys all the more than 1 quadrillion yens worth of Japanese government bonds in the market the result would be “financial tyranny.” It is true that if this happened the Bank of Japan would take over much of the control of the financial markets from private financial institutions (other than the BOJ) but it is also true that doing so would eliminate Japanese government debt. The question at the end of such a scenario would be of course if the BOJ was then a transparently run public utility or a private monopoly. That outcome depends on the ongoing factional war in Japan.

In any case, changes in the United States, Europe and the rest of the world make the ultimate defeat of the Japanese quislings a matter of time.

As mentioned above there are obvious signs the US military is no longer following cabal orders. The speech over the weekend by Obama

<http://www.veteranstoday.com/2013/05/26/obama-surprise-admissions-in-terror-talk/>

admitting US war crimes, and promising to stop such crimes, is a clear example. The fact the pentagon refused to send troops or weapons to help Israel overthrow the Syrian government, despite being ordered to do so by the State Department and Senate, is another clear sign. Instead Russia sent its Pacific fleet towards Israel and made it clear to the Israeli government they would

find themselves in a war with Russia (and no US help) if they did not back down.

Then we have reports that the King of Saudi Arabia, a secret Israeli ally, is dead.

<http://www.presstv.ir/detail/2013/05/26/305584/saudi-arabias-king-clinically-dead/>

This is a clear sign the cabal that forced the world to buy oil from Sabbatean kingdoms and deposit the money in cabal controlled banks, is on the ropes.

Also last week, China's number 2, Li Keqiang, went to India, Switzerland and Germany in what appears to be a move to formalize relations between the 180 nations BRICS alliance and the European Union using the Swiss as intermediaries.

<http://www.xinhuanet.com/english/special/lkq201305/index.htm>

China and Switzerland signed a Memorandum of Understanding to start a free trade agreement, the first between China and a Western country. In addition, both countries agreed to "a bid to jointly promote the establishment of a new international financial order featuring fairness, justice, inclusiveness and orderliness" according to Xinhua News.

By contrast with this sort of productive and friendly diplomacy, the cabalists were busy doing things like burning cars in Sweden in an attempt to start a race war. In England, the beheading of a soldier was real, according to MI5 and it was part of a plan to start a race war in the UK too. However, the operation is not producing the expected tumult and instead the high level planners are being rounded up. "Prime Minister Cameron's response was to go on a holiday to Ibiza, his days as Tory leader are numbered," is how MI5 summed up the situation.

One last note, a colleague of ours has just endured a month of incarceration in a Japanese mental hospital where he was forcibly drugged. He is now free again.

R: The Mystery Cave of Illinois

[mentioned by Rama as part of the discussion about finding the mummies of Nefertiti and the children in caves **in the US – which is really Egypt** – we are about to learn more of this!]

Caller: from Florida – tells of what is being said about Trayvon Martin and how he was bad, a juvenile delinquent and so on and so forth; story being repeated constantly on the radio

T: not true; yes, he did adolescent things, but he was not a delinquent – that is being put out ahead of the trial in an attempt to justify what George did which was kill Trayvon with pre-meditation

Caller: was at the EarthKeeper course in AZ: Richard Hoagland talked of the meteor to hit 19.5* in 2014 - will not hurt the planet at all.

- Talked of Tornado that hit Moore – showed pictures of two horses which had been deposited put on top of a school and another in the parking lot – neither were injured at all.

T: lots of miracles did happen; there were fleets of star ships over Moore; a young lady saw them before she was rescued from the debris

Caller: about the meteorite hitting Mars at 19.5* - on Oct 19/14, it will hit and send a reverberation through the solar system which will be quite positive

T: has heard about the lifting of the veils from around the planet so that what is being brought in will be of benefit to all life on the planet

Caller: used to talk about him bringing in the ships and connecting with his guides – what is happening?

R: still has this practice, does it all the time

- He says that, in spite of the dire energies going on in Syria, Lebanon etc, he still wakes up excited that something magical is about to happen. Knowing that & feeling the energy welling up keeps him going – these ones are sh1t out of luck.
 - He works with a huge quartz crystal & smaller ones; it literally calls the ships in
- what is happening on a greater scale is that the frequencies are increasing
- Radiant Rose Academy is doing the Seven Sacred Weeks

Cathy: asks about what might be happening to Rama in terms of the physical; have things quietened down?

MR: no, the Darth Vader calls not as insistent as in the past; still some static out there!

T: some things OK, some things going on – thinks the dark ones have bigger problems

R: the deals that are going on now at the highest level have to do with the love of power being overturned by the power of love, and they are doomed.

- What he keeps hearing from those he connects through: they are still here every Friday and Saturday, they stand at major intersections in Santa Fe with signs that ask why Rumsfeld and Bush are still walking around as they did 9/11; there is still poverty; what is being done?
- Those on the street are saying there is a revolution coming, and it is about the power of love, a spiritual revolution

T: Thom Hartmann allows really right wing people to debate him; had on someone from the Peterson Foundation – he was almost ready to lose it: you mean you are willing to cut \$20 Million from the SNAP program when there are so many on the brink of financial disaster, etc

- They are working for the Kato Institute and the Koch Brothers and the Heartland Institute – a right wing think tank that works as hard as they can to look after themselves and disenfranchise others

T: what happens when we watch good people tell the news: Thom H does not tell the truth about certain things either, yet so many people are catching on, as they do with Rachel, for instance

Cathy: where is Keith Olberman?

R: works for ESPN at the moment, sports cable program – gets his tweeter feeds every day: a baseball nut

T: has told T & R that he is coming back when the time is right & with Masoon Saheed,

Cathy: asks about Neil Keenan – all they know is he got bought – he went for the money!

T: got a surprise visit from someone today; husband was killed by dark side; in charge of the finny project; husband worked for some labs; they gave him some micro things in his heart that killed him in 2000.

- He worked with Linda Moulten Howe in the 80s and helped her wake up, and stay out of the hands of the dark ones – if you go there, you'll be dead! It is why she ended up on the Citizens Hearing; he knew he'd be killed, but he did it anyway.

Caller: listens to Kerry Cassidy of Camelot – what about her?

R: she tries to do the right thing; has a bit of ego – tries to get to the bottom of the stories, yet what she is dealing with is still coming from Faction 2, Black Ops – and we are not going to Mordor and those black areas!

R: until the final stroke, which will be the stroke of a feather, things proceed as they are doing

Cathy: had never heard about super soldiers until today – what are they?

T: talked to Jack and a lady super soldier; they go to Area 51 [Jack and Jill] – enhanced as humans they have machine DNA, ET DNA, and are programmed to do the bidding of the cabal; went to Iraq and were killing machines

- Rama met them on 24 Rock – voices were disguised; Jack was with Larry and Curly

R: the fiasco going on where the vast right wing conspiracy nuts like Bachmann and others have a plan to remove the “usurper” from Kenya from the White House;

- has to do with the 13 families as well who think they are still in control; the Arab Spring has entirely changed the course of events in the Middle East
- there are soldiers who have been sent through the Star Gates
- there is a tunnel from one in Iraq that goes to the Al Aqsa Mosque, for instance

R: there have been many who believed in the lies about Al Queda when it was always about the CIA who did 9/11 – R says some of them are still children in spite of their ages because of what they have had to stuff down inside themselves when they saw the horrors of what was going on in Iraq & Afghanistan

Cathy: do Valerie Plame and Joe Wilson still live near you?

R: yes; involved in the Global Zero project: the removal of nukes from the earth – Obama, Chomsky, Medea Benjamin, Howard Zinn's Foundation, all kinds of other people are really behind this concept

- Why do we need so many nukes, asks Putin?

T: thinks only galactic intervention will make this shift; these guys want to continue doing this for another bunch of years; Rana Mu came back from 175 million years in the future and has told them that one third of the MWG was gone because these ones did not get stopped and they got bigger and bigger nukes and continued to destroy the planet & the solar system; we are here to change the story

R: The Wingmkaers came back in time [Rana Mu is one] to talk to us and we are the crazy glue that holds these things together, get this done in this time – it is about the thing called the naquaal, serendipity – it is Mother, the jaquar medicine they cannot control: you have to move with it or it destroys you

Caller: an Indian Shaman gave her a name of dream healer – we are here to calm the crazy storms!

MR: a listener supported program; appreciate any help to keep us on the air!

Caller: in the original Star Trek, an episode where they came back to earth to stop a missile test; they met a man who had a black cat that – asked about Bast

R: yes, Gene Roddenberry played with that idea & about Mother, the gentle form of her

Caller: as a Moody Blues fan, read an interview with John Lodge – he spoke of how a young man came up and asked them if they wanted to take a ride in his father's star ship – sounded like Rama!

R: I cannot tell a lie! Has hung out with them since the 60s – they create music that touches the soul

Caller: the rock and roll ones create music that is the “back door to heaven”

R: agrees; on 94 Rock, he got to talk to Ozzie who has almost died a couple of times; got a wake-up call from Sananda who told him to sing music that brings people up, not destroys them

Caller: knows rock 'n roll singers who travel the world and their words are unique, thought they do not recognize this

T: there is a community in Canada; have 600 windmills, completely off the grid; also sell windmill energy to Calgary; completely self-sufficient – things going on like this all around the world; such things are being seen on Link TV; RT tv; and so on.

Cathy: Closing

2013, May 20 **Geoengineering: Can We Save the Planet by Messing with Nature?**

http://www.democracynow.org/2013/5/20/geoengineering_can_we_save_the_planet

As the carbon dioxide in the air hits 400 parts per million for the first time in human history, some are arguing that the best way address climate change is to use the controversial practice of geoengineering — the deliberate altering of the Earth's ecological and climate systems to counter the effects of global warming. Supporters of geoengineering endorse radical ways to manipulate the planet, including creating artificial volcanoes to pollute the atmosphere with sulfur particles. Many scientists and environmentalists have raised concerns about geoengineering technologies designed to intervene in the functioning of the Earth system as a whole. We're joined now by **Clive Hamilton, professor of public ethics at Charles Sturt University in Canberra, Australia**. Hamilton's new book, "Earthmasters: The Dawn of the Age of Climate Engineering," lays out the arguments for and against climate engineering, and reveals the vested interests behind it linking researchers, venture capitalists and corporations.

Transcript

AMY GOODMAN: We turn now to look at the issue of climate change, the growing concern about climate change and what to do about it. A recent survey of more than 4,000 academic papers published over the last 20 years found [97] percent of them agree climate change is caused by human activity. This comes as scientists are warning the planet has now reached a grim climate milestone not seen for two or three million years. The National Oceanic and Atmospheric Administration says the amount of heat-trapping carbon dioxide in the atmosphere has topped 400 parts per million. The 400 ppm threshold has been an important marker in U.N. climate change negotiations, widely recognized as a dangerous level that could drastically worsen human-caused global warming.

Some are arguing the best way to address climate change is to use the controversial practice of geoengineering—the deliberate altering of the Earth to decrease the level of greenhouse gas emissions. While controlling the Earth's climate system sounds like science fiction, such proposals are already being hatched out by government agencies, scientists, businesses around the world. Supporters of geoengineering endorse radical ways to manipulate the planet, including creating artificial volcanoes to pollute the atmosphere with sulfur particles. This is environmental scientist David Keith explaining the idea.

DAVID KEITH: This geoengineering idea, in its simplest form, is basically the following. You could put fine particles—say, sulfuric acid particles, sulfates—into the upper atmosphere, the stratosphere, where they would reflect away sunlight and cool the planet. And I know for certain that that will work—not that there aren't side effects, but I know for certain that will work. And the reason is, it's been done. And it was done not by us, not by me, but by nature. Here's Mount Pinatubo in the early '90s that put a whole bunch of sulfur in the stratosphere with a sort of atomic-bomb-like cloud, and the result of that was pretty dramatic. After that and some previous volcanoes we have, you see a quite dramatic cooling of the atmosphere.

AMY GOODMAN: Many scientists and environmentalists have raised concerns about geoengineering technologies designed to intervene in the functioning of the Earth system as a whole. Speaking on *Democracy Now!* in 2010, Indian scientist and activist [Vandana Shiva](#) warned about some of the dangers.

VANDANA SHIVA: These shortcuts that are attempted from places of power—and I would add, places of ignorance—of the ecological web of life, are then creating the war solution, because geoengineering becomes war on a planetary scale, with ignorance and blind spots, instead of taking the real path, which is helping communities adapt and become resilient.

AMY GOODMAN: Well, our next guest has written a new book that lays out the arguments for and against climate engineering, and reveals the extent of vested interests linking researchers, venture capitalists and corporations. We're joined by Clive Hamilton, professor of public ethics at Charles Sturt University in Canberra, Australia. He's the author of *Earthmasters: The Dawn of the Age of Climate Engineering*.

Clive Hamilton, welcome to *Democracy Now!*

CLIVE HAMILTON: Thanks, Amy.

AMY GOODMAN: So, what is geo- and climate engineering?

CLIVE HAMILTON: Well, it's a range of schemes that are being developed by scientists, particularly in the U.S., to essentially try to counter the effects of global warming by technological interventions in the global climate system. They range from the benign, such as making biochar, a kind of charcoal; through to the science fiction, like putting a cloud of mirrors in space to deflect some sunlight; to probably the premier scheme that receives most attention and which, in my view, is very likely to be implemented in perhaps 20, 30 years' time, the one that David Keith mentioned, the idea of essentially installing a solar shield, a layer of sulfate particles around the Earth to deflect a certain proportion of incoming solar radiation—so, in other words, to regulate the amount of sunlight reaching the Earth.

AMY GOODMAN: So, why did you decide to write this book?

CLIVE HAMILTON: Well, I wrote a previous book called *Requiem for a Species: Why We Resist the Truth About Climate Change*, which, as the title suggests, went into detail why it is that here we are in the beginning of the 20th century, where there's an overwhelming consensus of scientific evidence saying we're in really deep trouble, and yet we're not doing anything about it, or our actions are trivial. And so, it seems to me that as long as that goes on, as long as the scientists continue to ring the alarm bell ever more loudly, and as long as governments around the world fail to respond to those warnings—in other words, if plan A isn't working, then people are going to resort to plan B, and that is geoengineering. And that's why there's been this boom in interest, both from scientists and from other people, in these schemes to essentially take control of the climate system of planet Earth.

AMY GOODMAN: The Heartland Institute describes geoengineering as, quote, "much less expensive than seeking to stem temperature rise solely through the reduction of greenhouse gas emissions." The Cato Institute argues that, quote, "geo-engineering is more [cost]-effective than emissions controls altogether." And the Hudson Institute says geoengineering, quote, "could obviate the majority of the need for carbon cuts and enable us to avoid lifestyle changes." Why are all these groups proponents of geoengineering?

CLIVE HAMILTON: Well, one thing united about all of those groups is that they have a right-wing political vision. And so, what they like about geoengineering—bear in mind, incidentally, that the Heartland Institute, and another is—in this camp is the American Enterprise Institute, have spent many years repudiating climate science, attacking climate scientists and resisting all measures to reduce America's greenhouse gas emissions. And yet here they are endorsing geoengineering, so a response to a problem they say does not exist. And the reason is that, in some cases, if the medicine is palatable, then the patient is more likely to admit that there is a disease or an illness. And in this case, the technological intervention in the climate system is acceptable to a certain kind of conservative thinking, because it, in a way, refuses to vindicate the warnings of environmentalists that there's something profoundly wrong in our economic and political system, because geoengineering comes along and says, "Well, look, the system can solve the problem."

AMY GOODMAN: And which are the corporations that are most involved with this?

CLIVE HAMILTON: Well, most corporations are kind of staying at arm's length from all of this, as indeed governments are, for the time being. But quietly, behind the scenes, you can see them taking interest. There are a number of powerful or wealthy venture capitalists. Bill Gates is the sort of prominent player here. He's invested in a range of geoengineering schemes. You can go to the U.S. patent office, and you'll find Bill Gates's name on a couple of patents for geoengineering. We're also starting to see the oil companies, even Exxon, BP, Shell, starting to take an interest. They're sort of pulling people into independent groups to produce reports, advocating research into geoengineering. And you've got some kind of rogue geoengineers, sort of cowboy capitalists, who are going out there right now and doing these kinds of experiments in the ocean, for example.

AMY GOODMAN: So, talk about about what these experiments are.

CLIVE HAMILTON: Well, the one that has perhaps attracted most attention is an experiment in so-called ocean iron fertilization, spreading iron slurry on a patch of ocean.

AMY GOODMAN: What is iron slurry?

CLIVE HAMILTON: Well, basically iron dust or iron sulfate mixed with seawater. Spread it on a patch of ocean, and algal blooms suddenly emerge. You can do this quite quickly. And the idea is that you over—this way, you overcome the acidity of the ocean—I'm sorry, you stimulate the production of algal blooms. They suck up carbon dioxide from the atmosphere. And all of this sort of marine life that you stimulate then, in theory, sinks to the bottom of the ocean, taking their carbon with them, because, as organic creatures, they have to absorb carbon as they grow. And they grow because we've added the micronutrient that is missing—that is, the iron—in the sea.

And so, there's a man called Russ George, who—an entrepreneur with a colorful history, who's carried out a couple of experiments here, including one off the coast of British Columbia a couple of months ago, entirely unauthorized and probably illegal. And yet, he was up there spreading iron slurry or iron sulfates from the back of his ship, carrying out a geoengineering experiment, which highlights one of the main concerns that many of us have. There's virtually no regulation of geoengineering. And when it comes to sulfate aerosol spraying, there's nothing to prevent a government, any government, or even a corporation or a billionaire with a messiah complex, from launching a program of taking control of the Earth's weather by installing this kind of solar shield. So the absence of governance, the absence of regulation and the exclusion, particularly of people from poor and vulnerable countries, is a very serious concern.

AMY GOODMAN: What about the mirrors in the sky?

CLIVE HAMILTON: Well, this is more on the sci-fi end of it. But the idea is to send up a cloud, a large number of small mirrors, that would be stationed in a particular spot between the Earth and the sun, and adjusted in a way, from the Earth, or regulated, so that as the sunlight comes to the Earth, that they're oriented so that they deflect some of the sunlight so it misses the Earth and heads off into space. And you could adjust them so that you might reduce the amount of sunlight reaching the Earth by, say, 2 percent, which might be enough to offset the warming associated with a doubling of carbon dioxide emissions.

The problem with this is, we're not—we're not tackling the problem, we're just dealing with one symptom, because carbon dioxide emissions continue to go into the atmosphere under this scheme, acidifying the ocean. And so, basically, it just suppresses warming. And one of the dangers—in fact, perhaps the most frightening danger—of solar radiation management of this form is, if at some point in the future we install the solar shield and at some point we have to take it away—let's say there is some terrible side effect we hadn't foreseen or there's some global conflict, because, after all, who's going to have their hand on the thermostat? If we took away this solar shield, then you'd have this sudden surge of warming that had been suppressed for 10 or 20 or 30 years. And as you know, ecosystems are destroyed not so much because of the amount of warming, but of the rapidity of the increase in warming, because organisms, ecosystems don't have time to adapt. So that's a serious concern about installing this kind of solar shield.

AMY GOODMAN: In 2010, we spoke to freelance journalist [Gwynne Dyer](#), author of *Climate Wars: The Fight for Survival as the World Overheats*. He defended geoengineering.

GWYNNE DYER: Geoengineering is short-term interventions to avoid a climate runaway disaster, in order to give us more time to get our emissions down, which, in themselves, will cause a runaway climate disaster if we simply allow them to go ahead. Without geoengineering, you hit that disaster in less than 50 years. And you probably need more than 50 years to get your emissions down. Now, first of all, obviously, you've got to do the experiments. You've got to figure out: Are there horrendous side effects you don't want to do? But if you don't do this, you know who dies first? It's the people in the tropics and the subtropics.

AMY GOODMAN: That was Gwynne Dyer. Your response?

CLIVE HAMILTON: Well, I mean, coming from someone like Gwynne Dyer, it reflects the anxiety about

global warming and the refusal of the world to respond to it in a significant way. And so, he's extremely well motivated, and I have a lot of respect for Gwynne Dyer. But you notice he said "short-term intervention." In other words, the idea is we buy time until we get it right, either technologically or politically. But, of course, Amy, the problem with geoengineering is that the short term will become long-term. I mean, if you've got the American Enterprise Institute, the Cato Institute, the Heartland Institute, and already some conservative politicians saying we should go down the geoengineering route—

AMY GOODMAN: Like the Koch brothers?

CLIVE HAMILTON: The Koch brothers—

AMY GOODMAN: Are they involved with this?

CLIVE HAMILTON: They are not, as far as I know, involved in it, but it's right up their alley. I wouldn't be surprised if they got involved in it. Certainly Murray Edwards, the billionaire investor in the Canadian oil sands, he is involved in geoengineering.

AMY GOODMAN: In the tar sands?

CLIVE HAMILTON: He's invested in the tar sands, but he also has put money into a company called Carbon Engineering, managed—owned by David Keith, the scientist we saw, and in which Bill Gates has an investment. But, you see, the reason why these conservatives like geoengineering, it's because they see it as a substitute for reducing carbon dioxide emissions. They see it as a permanent solution to global warming, not, as Gwynne Dyer was saying, an opportunity to buy time in the short term. They see it as a—the conservatives see it as a vindication of the system. They see it—see geoengineering as a way of protecting the system, of preserving the political economic system, whereas others say the probably is the political and economic system, and it's that which we have to change.

AMY GOODMAN: I wanted to look at the Keystone XL for a second, you know, the tar sands, the whole story, the Keystone XL, the controversial pipeline that would deliver tar sands oil from Canada to the refineries in Texas. Earlier this year, a State Department report concluded the Keystone XL pipeline does not threaten the global climate. A number of environmental groups opposed the conclusion in a report called "Cooking the Books." They said, "In a world constrained by the realities of climate change, the proper measure of any project's climate impact should not be based on the assumptions inherent in a business as usual scenario that guarantees climate disaster. ... There is a climate impact from burning 830,000 barrels per day of any crude that cannot be ignored." Your response to that, Clive Hamilton?

CLIVE HAMILTON: Well, the most frightening development for those of us who watch climate change and climate politics over the last several years is that, whereas previously we thought, well, at least the fossil fuel reserves, you know, are running out, now we discover there are these vast so-called unconventional reserves or new ways of tapping into fossil fuels that were previously thought to be inaccessible. And so, suddenly the game has changed in a most unwelcome way. So you've got enormous greenhouse carbon dioxide resources buried in the tar sands in Canada. In Australia, where I come from, you've got huge new coal mines opening up. And, of course, across many countries, we have fracking getting access to new sources of natural gas. So, to argue that exploiting massive new resources of fossil fuels is not a threat to the climate is—you know, is bonkers, really.

AMY GOODMAN: What do the climate scientists say about geoengineering?

CLIVE HAMILTON: Well, the climate scientists—there's a range of views about it. There are some, like David Keith, who are very gung ho, who say that this is the answer to the global warming problem, we really should pursue this rapidly, and so he has a research interest, but he also has a financial interest in geoengineering.

And then you have scientists at the other end. Alan Robock, for example, is a prominent American climate scientist who points of the grave risks associated with attempting to tinker with the climate system of the Earth as a whole. So they tend to focus on the scientific risks. After all, we're talking about, you know, the mother of all ecosystems, the Earth as a whole, and, you know, we have trouble enough understanding the complexities of local ecosystems, let alone planet Earth.

But, of course, apart from the scientific risks, there are the political risks, the kinds of things that I've talked about, the danger that geoengineering becomes a substitute for reducing greenhouse gas emissions—in other words, as a way of protecting the political economic system from the kind of change that should be necessary.

AMY GOODMAN: What is Richard Branson involved with, who founded of Virgin Air?

CLIVE HAMILTON: Well, Richard Branson has got in early into the geoengineering, and he sees it—you know, he's one of these billionaires that wants to save the world. And so, among other things, he set up a prize for—a competition for whoever can come up with the best geoengineering scheme, and I think it was a \$10 million prize that he offered to the winning entry. And so, he has set up a website, and he's got some, you know, funky employees there who have this kind of "we can use technology to get ourselves out of this fix." So he very much comes with this sort of can-do attitude: If we put money into it, we cut through the politics, and we'll use technology to save the day. It's a very kind of Silicon Valley view of the world. But, of course, what it doesn't recognize is that technologies are never neutral. Technologies always come in a political and social context, which is why we see, you know, the Cato Institute and the Heartland Institute backing geoengineering, but bagging or attacking or dising renewable energy.

AMY GOODMAN: Let me ask you about what's happening in Australia, as that's where you're from. The—Australia pushing for an amendment to the London Protocol on marine pollution and dumping at sea, which would introduce a complete prohibition on the practice of fertilizing the oceans without scientific justification, this just announced by the Australian government?

CLIVE HAMILTON: Yeah, and a bit of a surprise, I have to say, a welcome surprise. I mean, it's part of a growing push from a range of countries, mostly from the South, but also backed by some Scandinavian countries, to try to develop an international governance structure to regulate research into geoengineering. So I was very pleased to see that the Australian government was taking—was on the side of progress in this particular case. And so, but most countries, including the United States, are kind of taking an arm's-length view here. We don't really want to get involved. It's not big enough yet. And the same, incidentally, goes for some of the big environment groups.

AMY GOODMAN: Now, you talked about this before, putting iron sulfate into the oceans, but the process came to prominence last year after an attempt was made to augment salmon stocks off the Canadian Pacific coast by adding chemicals to the ocean waters?

CLIVE HAMILTON: Yes, it came to prominence through this unauthorized experiment by this colorful entrepreneur, Russ George, who said he was spreading iron sulfate in order to stimulate salmon stocks. But, in fact, he had tried it before, specifically as a form of geoengineering. And he has said quite explicitly—in fact, he's tried to sell shares in his company, saying, "We can spread iron sulfate on the seas, which will encourage it to suck up carbon dioxide. We will generate carbon credits this way, which we can sell on the international market." So, you know, it's very much a commercial venture, which has not very good science behind it. And it's—so it's rung alarm bells amongst regulators and certain environment groups, that here we have someone, a rogue geoengineer, who's taken it upon himself to experiment with these kinds of schemes to affect the planet—the climate of the planet.

AMY GOODMAN: You write that "The potential risks are enormous: disrupting the food chain, damaging the ozone layer, the loss of monsoon rains in Asia." How?

CLIVE HAMILTON: Well, in the case of the monsoon, the Indian monsoon, which provides the annual water for a billion or more people, one of the—some of the early scientific work on the impact of installing this solar shield around the Earth through a sulfate aerosol layer is that it may—it will certainly cool the Earth, as David Keith said. He's pretty confident of that, because it mimics volcanoes. But it will also affect and change global rainfall patterns. And one of—some of the studies suggest that it could shift the Indian monsoon.

And, of course, let's say either the United States or China decides, in a desperate state, to install this solar shield, and it shifts the Indian monsoon, and there's a massive continuing drought, and people are going hungry. So, here we have a—you start to get a sense of the geopolitical implications of this, because this is

not—you know, everyone, through their greenhouse gas is, you know, as an unintended consequence, changing the climate of the Earth, which is happening now. Here you've got a government, probably, backed by the military, probably, or in collaboration with their military, actually setting out to regulate the temperature of the Earth, which may suit their interests. It may help fix their climate, but if it's severely damaging the climate of another country, particularly a poor country, I mean, what are they going to do? If it's a nuclear-armed country—you know, these are the kind of scenarios that are attracting the attention of the military planners, who are now—the Pentagon, for example, is taking an interest in geoengineering, because they can see some of these longer-term implications.

AMY GOODMAN: Let's turn to the Pentagon. In 2010, the Pentagon highlighted climate concerns in its main public document on military strategy that's released every four years, the Quadrennial Defense Review, or QDR. This is Michèle Flournoy, the then-undersecretary of defense for policy.

MICHÈLE FLOURNOY: This is the first QDR to address climate and energy issues, which are both significant factors in the future security environment. Climate change could increase demand for U.S. forces and humanitarian response, creating a new operating environment in the Arctic and requiring adaptation in our own facilities and systems. DOD's enormous dependence on energy makes its operations vulnerable to disruptions in energy flows and to price fluctuations. DOD aims to be a leader in the government to improve sustainability, resource efficiency, increase of renewable energy supplies, and reduction of energy demand, to improve operational effectiveness and reduce greenhouse gas emissions.

AMY GOODMAN: That's the Pentagon's Michèle Flournoy. She was one of the people on the short list, apparently, for Secretary of Defense Chuck Hagel's job. Clive Hamilton?

CLIVE HAMILTON: Well, she was talking principally about the implications of climate change on energy supply for the operations of the U.S. military. But, of course, the other part of it is the militarization of climate change itself, the geostrategic implications of a changing climate around the world, the potential destabilization that it is likely to bring about, particularly if we continue to do little about it. And so, when it comes to geoengineering schemes, using technology to essentially take control of the world's climate, it's no wonder that the Pentagon has now got people, you know, on the case, watching the scientific debate and taking note of the fact, for example, that China a year ago included geoengineering amongst its earth science research priorities. We can see that the emergence of a kind of global situation, where a number of nations are starting to investigate geoengineering, in the absence of regulation or, at this stage, any kind of global cooperation or transparency, and so it's no wonder that the Pentagon is taking an interest in it. I mean, it would be derelict in its duty if it weren't taking an interest in the emerging science and geopolitics of geoengineering.

AMY GOODMAN: Have you heard of the HAARP program of the U.S. government?

CLIVE HAMILTON: I have.

AMY GOODMAN: Which would alter the weather?

CLIVE HAMILTON: Well, it might. I mean, I think we have to be careful about the HAARP program and attributing too much to it. It's an experiment in the ionosphere that does not appear to have anything to do with geoengineering, not as typically understood.

AMY GOODMAN: Finally, the whole issue of sucking carbon dioxide out of the atmosphere and, as we wrap up, where you feel the science and the politics need to go from here?

CLIVE HAMILTON: Well, one scheme, and a very prominent scheme, again backed by David Keith, who seems to be ubiquitous in this, is to build huge arrays of basically metal boxes that would suck carbon dioxide out of the atmosphere, concentrate it in a safe form—calcium carbonate or something like that—and then pipe it somewhere to bury it permanently underground—you know, so to turn coal, which is stable carbon, into some other form of stable carbon under the ground. But, you see, it would require the construction—and these things would be built next to coal-fired power plants, perhaps. It would require the construction of a vast industrial infrastructure to suck carbon dioxide out of the atmosphere, fix it, pipe it,

bury it, in order to offset the effects of our existing vast industrial infrastructure. And it would be expensive. And so, it seems to make sense just to wind back our existing industrial infrastructure based on fossil fuels and replace it with the technologies that we already have, the zero- and low-carbon technologies that we already have. It will not be enormously expensive to make that energy transition. It's not that we lack the technology to solve climate change. We lack the political will.

AMY GOODMAN: On that note, I want to thank you very much, Clive Hamilton, professor of public ethics at Charles Sturt University in Canberra, Australia, author of the new book *Earthmasters: The Dawn of the Age of Climate Engineering*.

This is *Democracy Now!*, democracynow.org, *The War and Peace Report*. When we come back, we go to Seattle, Washington, to find out what's happening at Garfield High School. Stay with us.